



Vital Alert's C1000 mine and tunnel radios use magnetic induction, advanced digital communications techniques and ultra-low frequency transmission to wirelessly provide rs in cost reduction and advantageous diaper products result from LANL projects

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Diaper manufacturing provides a key to millions in cost reductions

Since the mid-1990s, The Procter and Gamble Company (P&G) and Los Alamos National Laboratory have collaborated on 17 projects touching upon physics simulations, statistical modeling, new materials, surface science, chemistry, and bioscience. In one of these projects, LANL and P&G adapted LANL's Computational Fluid Dynamics (CFD) technology and Library (CFDLib) to successfully optimize diaper manufacturing and manufacturing design.

The technology has been in use in P&G plants continually for nearly ten years, has led to millions in cost reductions, and is core to the competitive performance advantage that P&G diaper products enjoy in the global marketplace. For LANL, the collaboration provided a massive data set that permitted Laboratory scientists to validate and expand the capabilities of the software.

CFDLib is now available to U.S. industry as part of President Barack Obama's recently announced advanced manufacturing initiative, the National Digital Engineering and Manufacturing Consortium (NDEMC), designed to help make American companies more competitive and create new jobs.

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